JYOTI SINGH

Computer Science & Engineering

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United College of Engineering and Research

1900100100073,FEMALE UG Final Year , B.Tech

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Examination	Institute	Year	CPI / %
Graduation	UNITED COLLEGE OF ENGINEERING AND RESEARCH	2023	70(till 6 th sem)
Intermediate/+2	MPVM GANGA GURUKULAM	2018	86.40
Matriculation	MPVM GANGA GURUKULAM	2016	93.20

KEY PROJECTS

3D TIC TAC TOE Summer 2021

- Applied principles of object oriented programming by using classes to encapsulate and abstract the board. This allowed us
 to change the internal representation of the board, without changing rest of the code. The size and the difficulty were also
 abstracted.
- •Used higher ordered functions to implement a function that tells whether the current state is a win.
- •Implemented Minimax algorithm as the AI agent in the game.

N-QUEENS VISUALISER Summer 2022

- •Learnt fundamental **concept of recursive** calling to fill a queen in safe place. This helped us to monitor and check the position of Queen
- •Implemented **code optimisation** to by acknowledging the movement of queen, rotation of chessboard and other variations for distinct solutions
- •Solved an artificial intelligence problem by dividing it into sub problems, also designed the game board.

BINARY TREE VISUALISER Spring 2022

- •Implemented programming concept of binary tree, max heap using HTML, CSS and JavaScript.
- •Conceptualised **hierarchal data structure**, with the help of array representation •Applied algorithms and programming knowledge for constructing in well-defined way.

OTHER PROJECTS

SUDOKU SOLVER Summer 2020

- Applied the concepts of backtracking algorithm, by analysing various permutations
- •Solved by using function oriented approach alongwith recursive calls to reach a valid matrix solution.

SHORTEST PATH FINDER Summer 2021

- •Implemented using Dijkstra's algorithm, learnt backend working
- •Learnt code optimisation and approach for problem solving, applied graph theory to reach from source to destination

WEB DEVELOPMENT Summer 2022

- •Optimized the layout of the TinDog website to ensure useability on small screens, made **responsive** websites like MusicOnline, applied **layout designing** using containers and relative positioning, made my Portfolio website
- •Implemented a **simplified** version **backtracking** programming. Learnt **frameworks** like bootstrap, react.js for making it dynamically efficient and made projects like contact manager

ACADEMIC ACHIEVEMENTS

- Android With Core Java: Prutor IITK Technology licensed after submitting final internship project.
- Web Development Bootcamp: Udemy certified after completing the 90%lectures.
- Ethical Hacking: Scored 100% in Internshala Summer Training
- Computer System Security: **E & ICT Academy**, IIT Kanpur certified.

TECHNICAL SKILLS

Programming Languages C, C++,Python, SQL, Core Java.

Web Development HTML, CSS, JavaScript,php,jQuery,Reactjs,Nodejs,Firebase

Software Skill MATLAB, Eclipse, Codeblocks, Intellij IDEA Java IDE, Android Studio, MS- Office,

Webflow, Wordpress, Firebase, AWS.

KEY COURSES

Design and Analysis of Algorithms

•Software Engineering

Web Technology

Discrete Mathematics

• Computer Architecture

Embedded System

•Compiler Design

•Object Oriented Programming

•Computer Networks

Artificial Intelligence

Operating Systems

Calculus

•Data Structures and Algorithms

• Database Management System

Digital Logic Design

• Theory of computer Automation

• Image Processing

•Linear Algebra

EXTRACURRICULARS

- •Under National Cadet Corps Welfare scheme: taught underprivileged kids; recorded Hindi news audio books, as part of Voice for Purpose.
- •Wrote a few answers on Quora, started personal blogging site; improved content writing.
- Participated in Volleyball, Tug of war, and secured gold medal, during inter-college competition.